

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/003302

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 F24H 8/00**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 F24H, F23J, F23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-336836 A (OSAKA GAS CO., LTD., TAKAGI IND. CO., LTD.) 07 DECEMBER 2001 See the whole document	1-4
Y	JP 06-313627-A (MATSHISHITA ELECTRIC IND. CO., LTD.) 08 NOVEMBER 1994 See the whole document	1-4
Y	JP 59-112146 A (MATSHISHITA ELECTRIC IND. CO., LTD.) 28 JUNE 1984 See the whole document	1-4
A	EP 0507167 A2 (GELEWSKI, WINFRIED) 23 MARCH 1992 See the whole document	1-4

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
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 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
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 "&" document member of the same patent family

Date of the actual completion of the international search  26 MAY 2005 (26.05.2005)	Date of mailing of the international search report  <b>27 MAY 2005 (27.05.2005)</b>
Name and mailing address of the ISA/KR   Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  LEE, Ik Sang  Telephonc No. 82-42-481-5419



**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR2004/003302

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001-336836 A	07. 12. 2001	NONE	
JP 06-313627 A	08. 11. 1994	NONE	
JP 59-112146 A	28. 06. 1984	NONE	
EP 0507167 A2	23. 03. 1992	NONE	